SEQUENCE LISTING

<110> Epicentre Biosciences, Inc.
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Marshall, David
Prudent, James
Richmond, Craig
Roesch, Eric
Scherrer, Christopher
Sherrill, Christopher
Ptacin, Jerod

<120> Solid Support Assay Systems and Methods Utilizing Non-Natural Bases

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<210> 91
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<210> 96
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tacaaaccca yagtccggcg ctccctgtta gatg 154

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<210> 106
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ttgcagg 67

<210> 107
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gcctggtcca gc 72

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gccctgccca tactgagcag ccaagacac 89

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aagaggtcat aggggacaac catgaccaag aagttg 96

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gatgtgaatt aaagatgctt tggctaagcc aggagatgat aatactg 107

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gactgctca 129

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<222> (1)..(1)
<223> n represents deoxythymidylate labeled with 6-carboxyfluorescein (6-FAM)

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, or t

<400> 123
ngactgctgg agagctgagg 20

<210> 124
<211> 21
<212> DNA
<213> Artificial

<220>

<223> synthetic oligonucleotide

<400> 124
gtgtcttggc tgctcagtat g 21

<210> 125
<211> 21
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(1)
<223> n represents deoxythymidylate labeled with 6-carboxyfluorescein (6-FAM)

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, or t

<400> 125
nggactgtcc aaagggatct c 21

<210> 126
<211> 22
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<400> 126
caacttcttg gtcatggttg tc 22

<210> 127
<211> 19
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(1)
<223> n represents indodicarbocyanine 3-1-O-(2-cyanoethyl)-(N,N-diisopropyl)-phosphoramidite (Cy3)

<220>

<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, or t

<400> 127
nccttcctgc aytccacag 19

<210> 128
<211> 26
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(1)
<223> n represents deoxythymidylate labeled with 6-carboxyfluorescein (6-FAM)

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, or t

<400> 128
ncagtattat catctcctgg cttagc 26

<210> 129
<211> 20
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (1)..(1)
<223> n represents deoxythymidylate labeled with 6-carboxyfluorescein (6-FAM)

<220>
<221> misc_feature
<222> (1)..(1)
<223> n is a, c, g, or t

<400> 129
ncacatacac catgtcagcc 20

<210> 130
<211> 17

<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<400> 130
tgagcagtcg gtcagtg 17

<210> 131
<211> 28
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (4)..(4)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (4)..(4)
<223> n is a, c, g, or t

<220>
<221> modified_base
<222> (8)..(8)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (8)..(8)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 131
gtgnacangc ngcttcatac aaacccac 28

<210> 132
<211> 28
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>

<221> modified_base
<222> (4)..(4)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (4)..(4)
<223> n is a, c, g, or t

<220>
<221> modified_base
<222> (9)..(9)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (9)..(9)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 132
cgantctgnc ngcttcatac aaacccat 28

<210> 133
<211> 28
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (4)..(4)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (4)..(4)
<223> n is a, c, g, or t

<220>
<221> modified_base
<222> (8)..(8)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (8)..(8)
<223> n is a, c, g, or t

<220>

<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 133
ctancaancc ncactctcct ctgtagaa 28

<210> 134
<211> 28
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (5)..(5)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (5)..(5)
<223> n is a, c, g, or t

<220>
<221> modified_base
<222> (7)..(7)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (7)..(7)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 134
gagancnaag ncactctcct ctgtagag 28

<210> 135
<211> 31
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (5)..(5)

<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (5)..(5)
<223> n is a, c, g, or t

<220>
<221> modified_base
<222> (9)..(9)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (9)..(9)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 135
gttcntgang ngaaaatttc ttagtgatcc t 31

<210> 136
<211> 30
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (3)..(3)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (3)..(3)
<223> n is a, c, g, or t

<220>
<221> modified_base
<222> (6)..(6)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (6)..(6)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (11)..(11)

<223> n represents a n-propylene spacer (c3)

<400> 136
gcntanctac naaaatttct tagtgatccc 30

<210> 137
<211> 29
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (5)..(5)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (5)..(5)
<223> n is a, c, g, or t

<220>
<221> modified_base
<222> (7)..(7)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (7)..(7)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 137
gttancntcc nagtgttagt tatttgggt 29

<210> 138
<211> 28
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (4)..(4)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (4)..(4)
<223> n is a, c, g, or t

<220>
<221> modified_base
<222> (9)..(9)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (9)..(9)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 138
cacnatacng ngtgttagtt atttgggc 28

<210> 139
<211> 29
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (2)..(2)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t

<220>
<221> modified_base
<222> (7)..(7)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (7)..(7)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 139
cntaccnatg ntaacaccag taagttgac 29

<210> 140
<211> 29
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (2)..(2)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t

<220>
<221> modified_base
<222> (6)..(6)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (6)..(6)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 140
gncganaatc ntaacaccag taagttgag 29

<210> 141
<211> 28
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (2)..(2)
<223> n represents iso-guanine

<220>
<221> misc_feature

<222> (2)..(2)
<223> n is a, c, g, or t

<220>
<221> modified_base
<222> (7)..(7)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (7)..(7)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 141
gncgtanttg nagaataagg agagagca 28

<210> 142
<211> 27
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (3)..(3)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (3)..(3)
<223> n is a, c, g, or t

<220>
<221> modified_base
<222> (7)..(7)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (7)..(7)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 142
gtntatnccg ngaataagga gagagcg 27

<210> 143
<211> 31
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (5)..(5)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (5)..(5)
<223> n is a, c, g, or t

<220>
<221> modified_base
<222> (8)..(8)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (8)..(8)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 143
gacanacntc nagaatagtc cttgctatta a 31

<210> 144
<211> 31
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (5)..(5)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (5)..(5)
<223> n is a, c, g, or t

<220>
<221> modified_base
<222> (9)..(9)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (9)..(9)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 144
ggaanaacng nagaatagtc cttgctatta g 31

<210> 145
<211> 26
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (4)..(4)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (4)..(4)
<223> n is a, c, g, or t

<220>
<221> modified_base
<222> (6)..(6)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (6)..(6)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 145
gatntncagc nagaatgcac actgca 26

<210> 146
<211> 25
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (3)..(3)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (3)..(3)
<223> n is a, c, g, or t

<220>
<221> modified_base
<222> (6)..(6)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (6)..(6)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 146
gtnatntgcg ngaatgcaca ctgcg 25

<210> 147
<211> 24
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (4)..(4)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (4)..(4)
<223> n is a, c, g, or t

<220>

<221> modified_base
<222> (8)..(8)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (8)..(9)
<223> n is a, c, g, or t

<220>
<221> modified_base
<222> (9)..(9)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 147
gatngtcnng ngctagcgga ggcc 24

<210> 148
<211> 24
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (3)..(3)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (3)..(3)
<223> n is a, c, g, or t

<220>
<221> modified_base
<222> (6)..(6)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (6)..(6)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 148

ggnctnatgg ngctagcgga ggct 24

<210> 149
<211> 61
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<400> 149
cttctcccat tgcccagggc actctcctct gtagartaga ctgatytttg tggagacatc 60

a 61

<210> 150
<211> 35
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (2)..(2)
<223> n represents iso-cytosine

<220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t

<220>
<221> modified_base
<222> (5)..(5)
<223> n represents iso-cytosine

<220>
<221> misc_feature
<222> (5)..(5)
<223> n is a, c, g, or t

<220>
<221> modified_base
<222> (8)..(8)
<223> n represents iso-cytosine

<220>
<221> misc_feature
<222> (8)..(8)
<223> n is a, c, g, or t

<220>
<221> modified_base

<222> (12)..(12)
<223> n represents iso-cytosine

<220>
<221> misc_feature
<222> (12)..(12)
<223> n is a, c, g, or t

<400> 150
cngcnagnga tntgatgtct ccacaaagat cagtc 35

<210> 151
<211> 28
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (4)..(4)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (4)..(4)
<223> n is a, c, g, or t

<220>
<221> modified_base
<222> (8)..(8)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (8)..(8)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 151
ctancaancc ncactctcct ctgtagaa 28

<210> 152
<211> 28
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> modified_base
<222> (5)..(5)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (5)..(5)
<223> n is a, c, g, or t

<220>
<221> modified_base
<222> (7)..(7)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (7)..(7)
<223> n is a, c, g, or t

<220>
<221> misc_feature
<222> (11)..(11)
<223> n represents a n-propylene spacer (c3)

<400> 152
gagancnaag ncactctcct ctgtagag 28

<210> 153
<211> 13
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<220>
<221> misc_feature
<222> (1)..(1)
<223> n represents a 5'-phosphate

<220>
<221> modified_base
<222> (2)..(2)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (2)..(2)
<223> n is a, c, g, or t

<220>
<221> modified_base
<222> (6)..(6)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (6)..(6)
<223> n is a, c, g, or t

<220>
<221> modified_base
<222> (9)..(9)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (9)..(9)
<223> n is a, c, g, or t

<220>
<221> modified_base
<222> (12)..(12)
<223> n represents iso-guanine

<220>
<221> misc_feature
<222> (12)..(12)
<223> n is a, c, g, or t

<400> 153
nnatcnctng cng 13

<210> 154
<211> 18
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<400> 154
agaacccttt cctcttcc 18

<210> 155
<211> 47
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<400> 155
aagaaccctt tcctcttccg atgcaggata cttaacaata aatattt 47

<210> 156
<211> 39
<212> DNA
<213> Artificial

<220>
<223> synthetic oligonucleotide

<400> 156
gcagacagga yaaatattta ttgttaagta tcctgcatc 39